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MISCELLANEOUS.

147. Proposed by F. P. MATZ, Ph. D., Sc. D., Reading, Pa.

If P be a point within the scalene triangle, such that $\angle PAB = \angle PBC = \angle PCA = \phi$, then $\cot \phi = \cot A + \cot B + \cot C$ (1), and $\operatorname{cosec}^2 \phi = \operatorname{cosec}^2 A + \operatorname{cosec}^2 B + \operatorname{cosec}^2 C$ (2).

NOTE.—Problems and solutions in the departments of Geometry, Calculus, Mechanics, and Average and Probability should be sent to B. F. Finkel; and those in the departments of Algebra, Diophantine Analysis, Miscellaneous, and Group Theory should be sent to Dr. Saul Epstein. Our contributors should carefully observe this notice if proper credit for contributions is to be given.

NOTES.

A list of one hundred mathematical models, made and for sale by Mr. R. P. Baker, 5519 Monroe Street, Chicago, Ill., has recently been issued. The models relate to solid geometry, linkages, crystallography, twisted cubics, cubic cones, scrolls, surfaces of the second order, etc. In view of the numerous orders received, Mr. Baker expects to devote his entire attention to the construction of models. D.

F. Strobel of Jena, has compiled a directory of all living mathematicians, physicists, astronomers, and chemists. It will be published by the firm of J. A. Barth of Leipzig, and revised every two years. S.

Mr. J. R. Hogan and Mr. E. Whitford have been appointed tutors in mathematics at the College of the City of New York. S.

The medal of the Royal Society of London was awarded to Professor W. Burnside for his researches on the theory of groups. S.

BOOKS.

A College Algebra. Seventh Edition. By J. M. Taylor, A. M., LL. D., Professor of Mathematics in Colgate University. Boston and Chicago: Allyn and Bacon. 363 pages.

To the introductory work, covering the ground of a high school course, the author devotes the first hundred pages, the remainder of the book being devoted to subjects adapted to the first year at college. In Chapter XII the fundamental notion of *functionality* is introduced and briefly illustrated by means of simple examples. In this chapter the theory of limits is also developed.

One of the chief merits of the book consists, in the opinion of the reviewer, of the introduction of the chapter on the derivatives of algebraic functions. The chapter on the development of functions in series, on convergency and divergency, logarithms and theory